

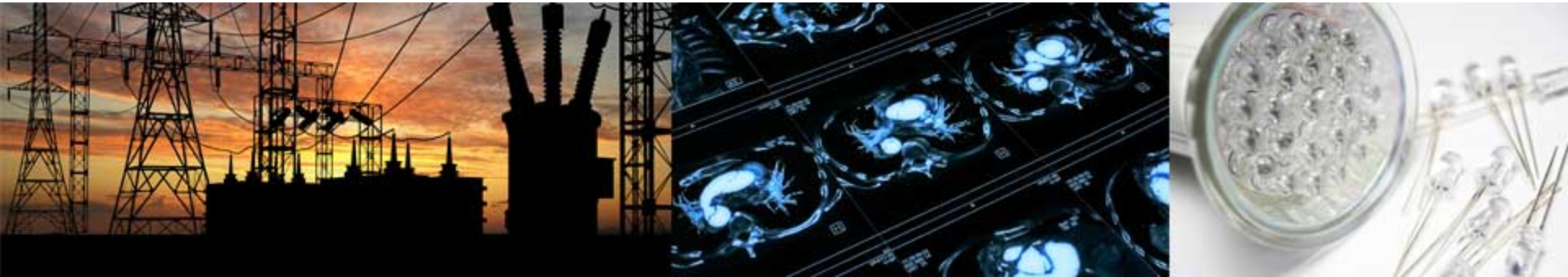
Presentation to Clean Cities Coalitions

September 29, 2014

Jim Creevy, Director of Government Relations



The Association of Electrical and Medical Imaging Equipment Manufacturers





NEMA's EVSE Members



Power and productivity
for a better world™

CARCHARGING™

EV fueling where you live, work, and play



-chargepoint+

EAT•N

FE Fuji Electric



GE Energy



General Cable



legrand

LEVITON

MILBANK

Schneider
Electric



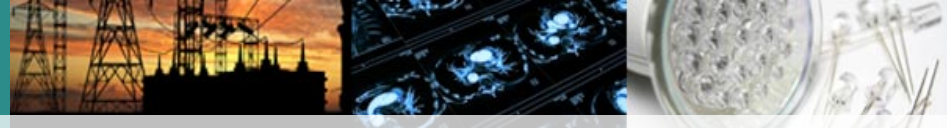
SIEMENS



Southwire®

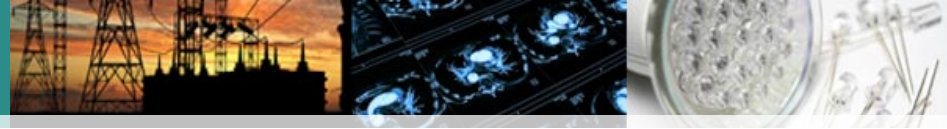
TE
connectivity

TOSHIBA
Leading Innovation >>>



What do these have in common?



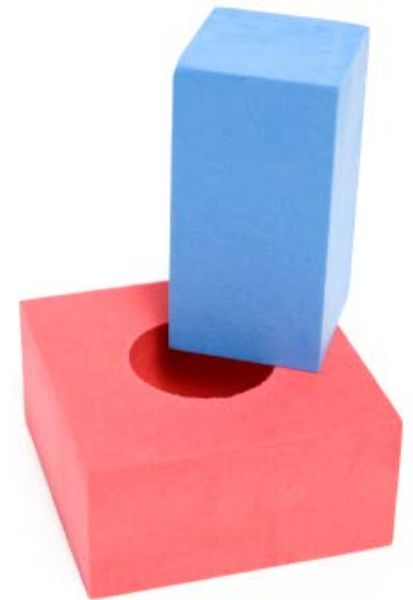


NEMA's Principles for NIST Activity

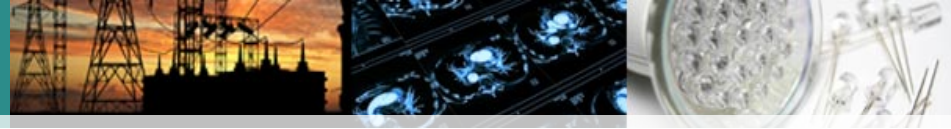
⚡ Gas pump model not
appropriate for EV charging

- Time - l o n g e r
- Location -
- Revenue - smaller

isolated



⚡ Allow Technology and
Innovation



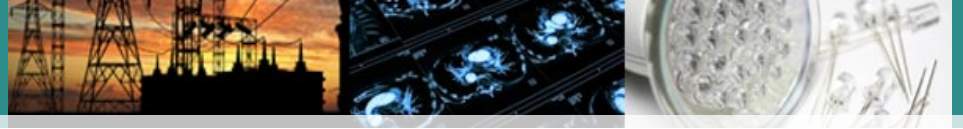
Uniform Regulation for the Method of Sale of Commodities - Handbook 130

Kilowatt-hour

+

Other Fees for Services

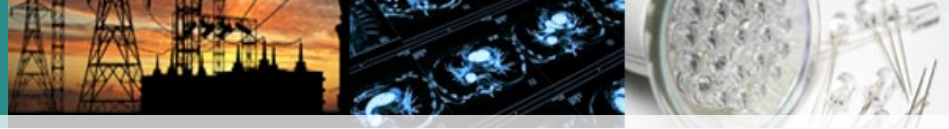
Handbook 130



Specifications and Tolerances Handbook 44

⚡ Implementation of HB 130

- How should we
 - Measure electricity?
 - Display info, including price?
 - Certify accuracy?



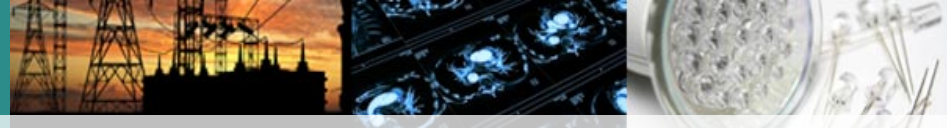
NEMA's Other Technical Activities

⚡ National Electrical Code

- Major 2014 update of article 625 (EVSE)
- Safety at installation

⚡ Safety Certification

- UL/CSA/Intertek safety standards
- Safety of the equipment

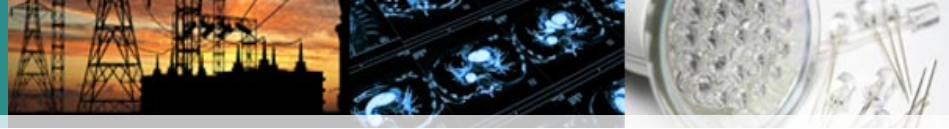


NEMA's Other Technical Activities

⚡ Network Roaming/Interoperability

- ATM-style interoperability for EV charging networks
 - Authentication
 - Mapping (location, status reporting, reservations)
 - Payments

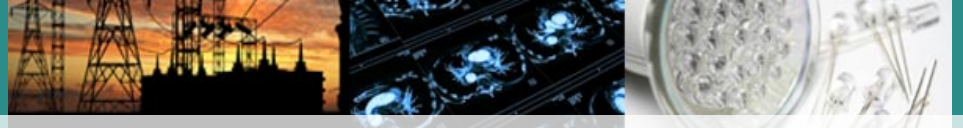




NEMA's Other Technical Activities

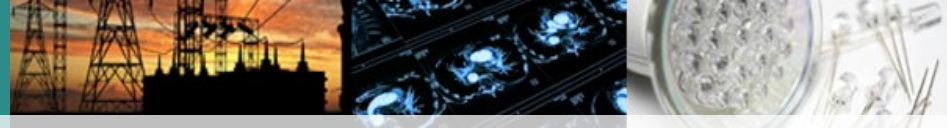
⚡ Installation and Maintenance

- Produced by National Electrical Contractors Association
- Describes the procedures for installing and maintaining AC Level 1, AC Level and fast charging DC EVSE



What Can Clean Cities Coalitions Do?

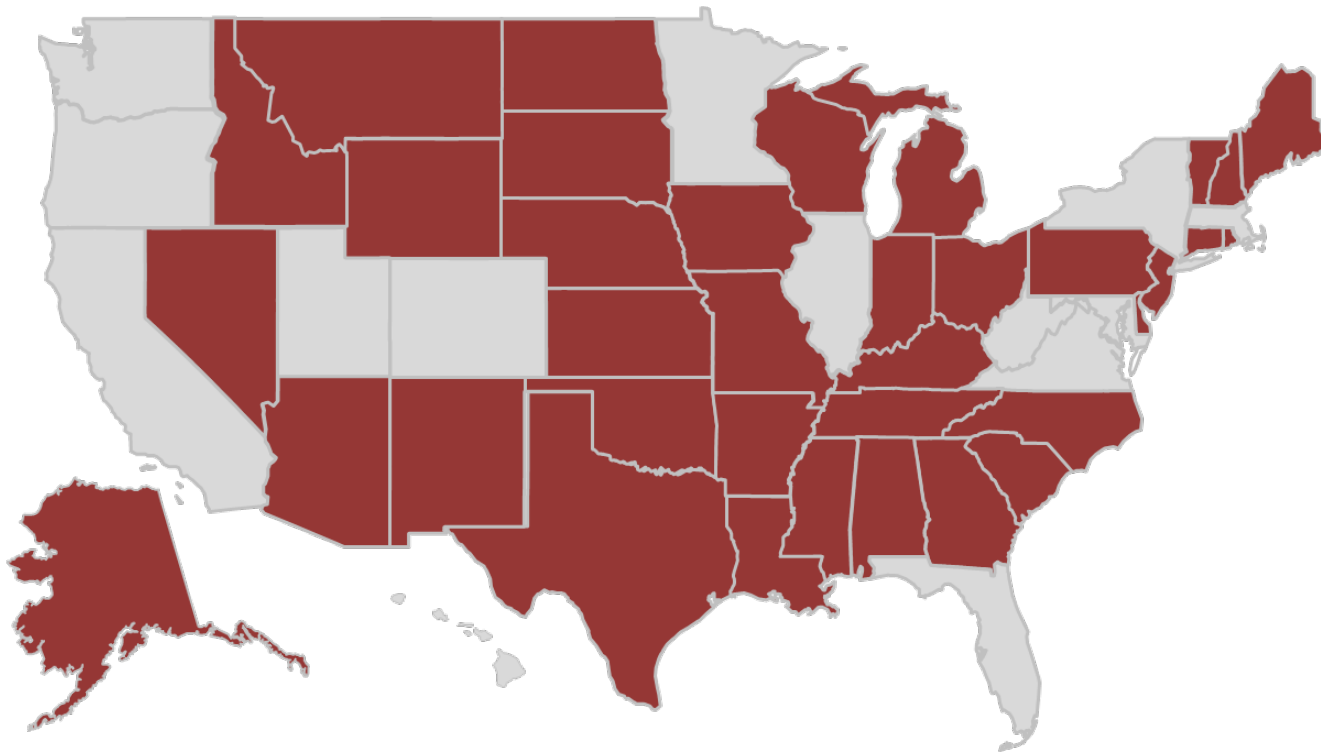
1. Exemption for resale of electricity for EV
2. NIST Handbooks 130 and 44
3. EVSE Ready
4. National Electrical Code

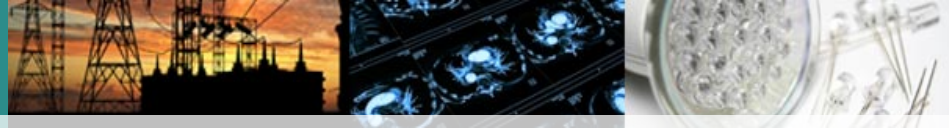


1. Ask your state to exempt reselling electricity as vehicle fuel from utility regulation

15 states have already done so...

...The others have not



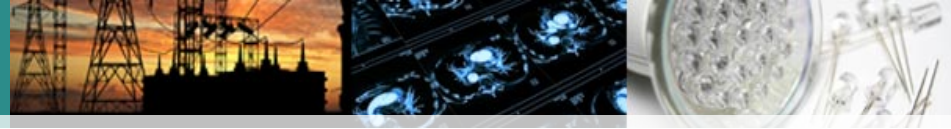


2. Ask your state to adopt HB 130, HB 44 (as drafted)

✚ Handbooks have no force without adoption by states

- Usually the Weights and Measures Office within the Department of Ag or Consumer Protection

✚ Tell your legislators and/or relevant agency to adopt the updated Handbooks

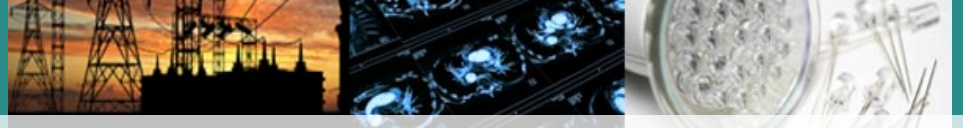


3. Promote EVSE Ready

⚡ Preparing for EVSE at construction is less expensive than retrofit

- Put in the wiring and other components leading out to future charging stations
- No EVSE needed

⚡ www.evserready.org



4. Ask your state to adopt the 2014 National Electrical Code (NEC)

- ⚡ Like NIST Handbooks, the NEC must be adopted locally or statewide to take effect
- ⚡ Contact your State Building Commission or Local Building Department about adopting the 2014 version of the NEC
 - Roughly 30 states have adopted or are in the process of adopting the 2014 version
 - Other states are lagging behind on old codes

Thank you!

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